1 1 T

M L A G G V R SAGGCCAGTCTGTTTGCCTCCCAACGCCATCTGACCCAGGTGAGCAAGAGG ATG CTG GCG GGG GGC GTG AGG S M P S P L L A C W Q P I L L V L G S 27 AGC ATG CCC AGC CCC CTC CTG GCC TGC TGG CAG CCC ATC CTC CTG CTG GTG CTG GGC TCA V L S G S A T G C P P R C E C S A Q D R 47 GTG CTG TCA GGC TCG GCC ACG GGC TGC CCC CCC CGC TGC GAG TGC TCC GCC CAG GAC CGC 271 A V L C H R K R F V A V P E G I P T E T 57 GCT GTG CTG TGC CAC CGC AAG CGC TTT GTG GCA GTC CCC GAG GGC ATC CCC ACC GAG ACG R L L D L G K N R I K T L N Q D E F A S 37 CSC CTG CTG GAC CTA GGC AAG AAC CSC ATC AAA ACG CTC AAC CAG GAC GAG TTC GCC AGC 391 FPHLEELELNENIVSAVEPG 107 TTC CCG CAC CTG GAG GAG CTG GAG CTC AAC GAG AAC ATC GTG AGC GCC GTG GAG CCC GGC 451 AFNNL FNL RTLGL RSNR LKL 127 GCC TTC AAC AAC CTC TTC AAC CTC CGG ACG CTG GGT CTC CGC AGC AAC CGC CTG AAG CTC 147 I P L G V F T G L S N L T K L D T R E N ATC CCG CTA GGC GTC TTC ACT GGC CTC AGC AAC CTG ACC AAG CTG GAC ACG AGG GAG AAC K I V I L L D Y M F Q D L Y N L K S L E 167 AAG ATC GTT ATC CTA CTG GAC TAC ATG TTT CAG GAC CTG TAC AAC CTC AAG TCA CTG GAG "V G D N D L V Y I S H R A F S G L N S L 187 STT SGC GAC AAT GAC CTC STC TAC ATC TCT CAC CGC GCC TTC AGC GGC CTC AAC AGC CTG 207 EQLTLEKCNLTSIPTEALSH SAG CAG CTG ACT CTG GAG AAA TGC AAC CTG ACC TGC ATC CCC ACC GAG GCG CTG TCC CAC 227 LHGLIVLRLRHLNINAIRDY CTG CAC GGC CTC ATC GTC CTG AGG CTC CGG CAC CTC AAC ATC AAT GCC ATC CGG GAC TAC 311 247 S F K R L Y R L K V L E I S H W P Y L D 871 TCC TTC AAG AGG CTG TAC CGA CTC AAG GTC TTG GAG ATC TCC CAC TGG CCC TAC TTG GAC 267 T M T P N C L Y G L N L T S L S I T H C 931 ACC ATG ACA CCC AAC TGC CTC TAC GGC CTC AAC CTG ACG TCC CTG TCC ATC ACA CAC TGC 287 N L T A V P Y L A V R H L V Y L R F L N AAT CTG ACC GCT GTG CCC TAC CTG GCC GTC CGC CAC CTA GTC TAT CTC CGC TTC CTC AAC 991 307 LSYNPISTIEGSMLHELLRL CTC TCC TAC AAC CCC ATC AGC ACC ATT GAG GGC TCC ATG TTG CAT GAG CTG CTC CGG CTG 1051 327 O E I Q L V G G Q L A V V E P Y A F R G CAG GAG ATC CAG CTG GTG GGC GGG CAG CTG GCC GTG GTG GAG CCC TAT GCC TTC GGC GGC 1111 347 LNYLRVLNVSGNQLTTLEES CTC AAC TAC CTG CGC GTG CTC AAT GTC TCT GGC AAC CAG CTG ACC ACA CTG GAG GAA TCA 1171

TTGGGACCCAGCAGCAGCAGCAGTCAGGTGCATGCTGGGACCGGGACAGGGTGCGCCACCCCAGGCCCCA

V F H S V G N L E T L I L D S N P L .A C 367 GTC TTC CAC TCG GTG GGC AAC CTG GAG ACA CTC ATC CTG GAC TCC AAC CCG CTG GCC TGC 1231 D C R L L W Y F R R R W R L N F N R Q Q GAC TST COG CTC CTG TGG GTG TTC COG CGC CGC TGG CGG CTC AAC TTC AAC CGG CAG CAG 1291 PEFVQGKEFKDFPDV 407 ecc acg toc occ acg coe gas thi ote cas oge aas gas the aas gas tite cot gat gig. 1351 L L P N Y F T C R R A R I R D R K A Q Q CTA CTG CCC AAC TAC TTC ACC TGC CGC CGC CGC ATC CGG GAC CGC AAG GCC CAG CAG .1411 V. F V D E G H T V Q F V C R A D G D P P 447 GTG TTT GTG GAC GAG GGC CAC ACG GTG CAG TTT GTG TGC CGG GCC GAT GGC GAC CCG CCG 1471 PAIL WLSPRKHL VSAKSNG R 467 CCC GCC ATC CTC TGG CTC TCA CCC CGA AAG CAC CTG GTC TCA GCC AAG AGC AAT GGG CGG 1531 L T V F P D G T L E V R Y A Q V Q D N G 487 CTC ACA GTC TTC CCT GAT GGC ACG CTG GAG GTG CGC TAC GCC CAG GTA CAG GAC AAC GGC 1591 Y L C I A A N A G G N D S M P 507 AGG TAC CTG TGC ATC GCG GCC AAC GCG GGC GGC AAC GAC TCC ATG CCC GCC CAC CTG CAT 1651 V R S Y S P D W P H Q P N K T F A F GTG CGC AGC TAC TCG CCC GAC TGG CCC CAT CAG CCC AAC AAG ACC TTC GCT TTC ATC TCC 1711 N Q P G E G E A N S T R A T V P F PF AAC CAG CCG GGC GAG GGA GAG GCC AAC AGC ACC CGC GCC ACT GTG CCT TTC CCC TTC GAC 1771 567 I K T L I I A T T M G F I S F L G V V L ATC AAG ACC CTC ATC ATC GCC ACC ACC ATG GGC TTC ATC TCT TTC CTG GGC GTC GTC CTC 1831 FCLVLLFLWSRGKGNTKHNI THE THE CHE GHE CHE CHE THE CHE THE AGE CHE GHE AAG GHE AAC ACA AAG CAC AAC ATC 1891 EIEYVPRKSDAGISSADAPR GAG ATC GAG TAT GTG CCC CGA AAG TCG GAC GCA GGC ATC AGC TCC GCC GAC GCG CGC CGC 1951 615 KFNMKMI 1975 AAG TTC AAC ATG AAG ATG ATA TGA CTCACCACCTGCCTCCTTCTACCAGGACCTCAGAAGCCCAGACCTGGGGACCCCACCTACACAGGGGGCATTGACAGAC 2212 TGGAGTTTAAAGCCGACGACGACGCGGCAGAGTCAATAATTCAATAAAAAAGTTACGAACTTTCTCTGTAACTTG 2291 2351

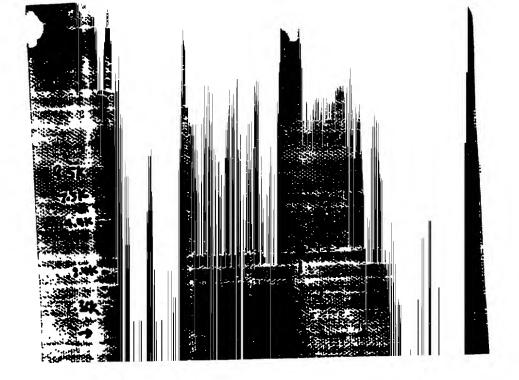
Input file T81: Cutput File T811.pat

* Sequence length 979

	M A G S P																			
GAAT	AATTCCCCACCAGCCAGCCAGTCCCCGGTAGCARACCCCCGCTCCCTGCCCAGCAACC ATG GCG GCG TCG CCG															72				
	LLWGPRAGGOGGOGGOGGOGGOGGOGGOGGOGGOGGOGGOGGOGGO															25				
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GGT	GAG	GCG	GCG	GGG	GCG	GIG	CAG	GAG	crc	GCG	CGG	GCG	CIG	GÇĞ	CAT	CIG	CIG	GAG	GCC	3 12
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									GCG											372
L	A	Q	L	L	R	A	W	S	A	5	3	N	s	ם	P	A	L	G	L	125
																			TIG	432
									Q											145
GAC	GAC	CAC	CCC	GAC	CCG	cci	GCA	GCG	CAG	cic	CCI	CGC	GCT	cic	CIC	CGC	GCC	CGC	CII	492
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									CCC											612
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CAG	ACA	CCC	GAC	GIG	GAC	CCC	GAG	cic	TTG	AGG	TAC	TIG	CIG	GGA	CGG	ATT	CII	GCG	GGA	672
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21	cent Sim	rity: ty: 29.412
	T79	MLAGCACWQPILLLVLGSVLSGS .ATGCPPRCECSAQDR. 47
	D45913	MARLSTGKAAC.QVVLGLLITSLTESSILTSECPQLCVCEIRPWF 44
	T79	AVLCHRKRFVAVPEGIPTETRLLDLGKNRIKTLNQDEFAS 87
	D45913	TPQSTYREATTVDCNDLRLTRIPGNLSSDTQVLLLQSNNI
	T79	FPHLEELELNENIVSAVEPGAFNNLFNLRTLGLRSNRLKLIPLGVFTGLS 137
	D45913	AKTVDELQQLFNLTELDFSQNNFTNIKEVGLANLT 119
	т79	NLTKLDTRENKIVILLDYMFQDLYNLKSLEVGDNDLVYISHRAFSGLNSL 187
	D45913	O QLTTLHLEENQISEMTDYCLQDLSNLQELYINHNQISTISANAFSGLKNL 169
	<b>17</b> 9	8 EQLTLEKCNLTSIPTEALSHLHGLIVLRLRHLNINAIRDYSFKRLYRLKV 237
	<b>D4591</b> 3	0 LRLHLNSNKLKVIDSRWFDSTPNLEILMIGENPVIGILDMNFRPLSNLRS 219
	<b>17</b> 9	8 LEISHWPYLDTMTPNCLYGLN.LTSLSITHCNLTAVPYLAVRHLVYLRFL 286
	045913	0 LVLAG.MYLTDVPGNALVGLDSLESLSFYDNKLIKVPQLALQKVPNLKFL 268
	₽79 <i>*</i>	7 NLSYNPISTIEGSMLHELLRLQEIQLVG.GQLAVVEPY
	<b>D</b> 45913	9 DLNKNPIHKIQEGDFKNMLRLKELGINNMGELVSVDRYALDNLPELTKLE 318
	<u>7</u> 79 √0	4AFRGLNYLRVLNVSGNQLTTLEESVFHSVGNLETLIL 360
	<b>0</b> 45913	9 ATNNPKLSYIHRLAFRSVPALESLMLNNNALNAVYQKTVESLPNLREISI 368
	T79	1 DSNPLACDCRLLWVFRRRWRLNFNRQQPT.CATPEFVQGKEFKDFPDVLL 409
	D45913	9 HSNPLRCDCVIHWINSNKTNIRFMEPLSMFCAMPPEYRGQQVKEVLI 415
	T79	LO PNYFT.CRRARIRDRKAQQVFVDEGHTVQFVCRADGDPPPAILWLSPRKH 458 .: .   . :       : :       : :   .   :   :
	D45913	L6 QDSSEQCLPMISHDTFPNHLNMDIGTTLFLDCRAMAEPEPEIYWVTPIGN 465
	T79	59 LVSAKS.NGRLTVFPDGTLEVRYAQVQDNGTYLCIAANAGGNDSMPAHLH 507 :::::::    :  :: .     : . . .   :.
	D45913	66 KITVETLSDKYKLSSEGTLEIANIQIEDSGRYTCVAQNVQGADTRVATIK 515
	T79	08 V
		16 VNGTLLDGAQVLKIYVKQTESHSILVSWKVNSNVMTSNLKWSSATMKIDN 565
	T79	19 PNKTFAFISNQPGEGEANSTRA 540

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T R P I L V I H D E Q K G P E V T S N CC ACG CGT CCG ATC TTG GTC ATC CAC GAT GAA CAG AAG GGG CCG GAA GTG ACC TCC AAT A A L T L R N F C N W Q K Q H N P P S D GCT GCC CTC ACT CTG CGG AAC TTT TGC AAC TGG CAG AAG CAG CAC AAC CCA CCC AGT GAC 119 R D A E H Y D T A I L F T R Q D L C G S 59 CGG GAT GCA GAG CAC TAT GAC ACA GCA ATT CTT TTC ACC AGA CAG GAC TTG TGT GGG TCC 179 Q T C D T L G M A D V G T V C D P S R S 79 CAG ACA TGT GAT ACT CTT GGG ATG GCT GAT GTT GGA ACT GTG TGT GAT CCG AGC AGA AGC 239 C S V I E D D G L Q A A F T T A H E L G 99 THE THE GTE ATA GAA GAT GAT GET TYA CAA GET GEE TYE ACE ACA GEE CAT GAA TTA GGE 299 H V F N M P H D D A K Q C A S L N G V N 119 CAC GTG TTT AAC ATG CCA CAT GAT GAT GCA AAG CAG TGT GCC AGC CTT AAT GGT GTG AAC 359 Q D S H M M A S M L S N L D H S Q P W S 139 CAG GAT TOO CAC ATG ATG GOG TOA ATG CTT TOO AAC CTG GAC CAC AGC CAG CCT TGG TOT PCSAYMITSFLDNGHGECLM 159 CCT TGC AGT GCC TAC ATG ATT ACA TCA TTT CTG GAT AAT GGT CAT GGG GAA TGT TTG ATG D K P Q N P I Q L P G D L P G T S Y D A 179 GAC AAG CCT CAG AAT CCC ATA CAG CTC CCA GGC GAT CTC CCT GGC ACC TCG TAC GAT GCC NRQCQFTFGEDSKHCPDAAS 199 AAC CGG CAG TGC CAG TTT ACA TTT GGG GAG GAC TGC AAA CAC TGC CCT GAT GCA GCC AGC T C S T L W C T G T S G G V L V C Q T K 219 ACA TOT AGC ACC TTG TGG TGT ACC GGC ACC TCT GGT GGG GTG CTG GTG TGT CAA ACC AAA 239 H F P W A D G T S C G E G K W C I N G K CAC TTC CCG TGG GCG GAT GGC ACC AGC TGT GGA GAA GGG AAA TGG TGT ATC AAC GGC AAG C V N K T D R K H F D T P F H G S W G M TOT GTG AAC AAA ACC GAC AGA AAG CAT TIT GAT ACG CCT TIT CAT GGA AGC TGG GGA ATG W G P W G D C S R T C G G G V Q Y T M R TOG GGG CCT TGG GGA GAC TGT TGG AGA AGG TGC GGT GGA GGA GTC CAG TAC ACG ATG AGG 839 E C D N P V P K N G G K Y C E G K R V R 299 GAA TOT GAC AAC CCA GTC CCA AAG AAT GGA GGG AAG TAC TOT GAA GGC AAA CGA GTG CGC 899 319 Y R S C N L E D C P D N N G K T F R E E THE AGA TOO TOT AAC CIT GAG GAC TOT CCA GAC AAT AAT GGA AAA ACC TIT AGA GAG GAA 959 Q C E A H N E F S K A S F G S G P A V E 339 CAA TOT GAA GCA CAC AAC GAG TIT TCA AAA GCT TCC TIT GGG AGT GGG CCT GCG GTG GAA 1019 WIPKYAGVSPKDRCKLICQA TGG ATT CCC AAG TAC GCT GGC GTC TCA CCA AAG GAC AGG TGC AAG CTC ATC TGC CAA GCC 1079 K G I G Y F F V L Q P K V V D G T P C S 379 AAA GGC ATT GGC TAC TTC TTC GTT TTG CAG CCC AAG GTT GTA GAT GGT ACT CCA TGT AGC 1139

21 1 × 1

PDSTSVCVQGQCVKAGCDRI399 CCA GAT TOO ACC TOT GTC TOT GTG CAA GGA CAG TGT GTA AAA GCT GGT TGT GAT CGC ATC 1199 I D S K K K F D K C G V C G G N G S T C ATA GAC TOO AAA AAG AAG TYT GAT AAA TGT GGT GTT TGC GGG GGA AAT GGA TOT ACT TGT 1259 K K I S G S V T S A K P G Y H D I I T I 439 AAA AAA ATA TCA GGA TCA GTT ACT AGT GCA AAA CCT GGA TAT CAT GAT ATC ACA ATT 1319 PTGATNIEVKQRNQRGSRNN CCA ACT GGA GCC ACC AAC ATC GAA GTG AAA CAG CGG AAC CAG AGG GGA TCC AGG AAC AAT 1379 G S F L A I K A A D G T Y I L N G D Y T 479 GGC AGC TIT CIT GCC ATC AAA GCT GCT GAT GGC ACA TAT ATT CIT AAT GGT GAC TAC ACT 1439 EQDIMYKGVVLRYSGS 499 TTG TCC ACC TTA GAG CAA GAC ATT ATG TAC AAA GGT GTT GTC TTG AGG TAC AGC GGC TCC 1499 SAALERIRSFSPLKEPLTIQ 519 TOT GOG GOA TTG GAA AGA ATT CGC AGO TTT AGO COT CTC AAA GAG CCC TTG ACC ATC CAG 1559 V L T V G N A L R P K I K Y T Y F V K K GTT CTT ACT GTG GGC AAT GCC CTT CGA CCT AAA ATT AAA TAC ACC TAC TTC GTA AAG AAG 1619 K K E S F N A I P T F S A W V I E E W G AAG AAG GAA TOT TTO AAT GOT ATO COO ACT TTT TOA GOA TGG GTC ATT GAA GAG TGG GGC 1679 ECSKTCGKGYKKRSLKCLSH 579 GAA TOT TOT AAG ACC TOT GGG AAG GGT TAC AAA AAA AGA AGC TTG AAG TGT CTG TCC CAT 1739 D G G V L S H E S C D P L K K P K H F I GAT GGA GGG GTG TTA TCT CAT GAG AGC TGT GAT CCT TTA AAG AAA CCT AAA CAT TTC ATA 1799 609 D F C T M A E C S * 1829 GAC TIT TGC ACA ATG GCA GAA TGC AGT TAA GTGGTTTAAGTGGTGTTAGCTCTGAGGGCAAGGCAAAGTGAGGAAGGGCTGGTGCAGGGAAAGCAAGAAGGCTGGAGGG 1908 AAAAGTTAGAACTRTTACAACCCCTGTTTCCTGGTACTTATCAAATACTTAGTATCATGGGGGTTGGGAAATGAAAAGT 2224 AGGAGAAAAGTGAGATTTTACTTAAGACCTGTTTTACTTTACCTCACTAACAATGGGGGGAGAAAGGAGTACAAATAGGA 2303 TCTTGACCACCACTGTTTATGCCTCCTATGGTTTCAGAGAATGTTTATACATTATTTCTACCGAGAATTAAAACTTCA 2382 GATTGTTCAACATGAGAGAAAGGCTCAGCAACGTGAAATAACGCAAATGGCTTCCTCTTTCCTTTTTTTGGACCATCTCA 2461 GICTTATTIGIGIAATTCATTTIGAGGAAAAACAACTCCATGTATTTATTCAAGTGCATTAAAGTCTACAATGGAAA 2540 TACCATGTAACCCTGCTTTGGGAATATGGATGTAAAGAAGTAACTTGTGTCTCATGAAAATCAGTACAATCACAAAGG 2698

AGGATGAAAACGCCCGGAACAAAAATGACGTGTTGTACAACAGGGTCCCCACAGGTTTTGGCGACATTGAGATCACTTGTCTTG	27 <b>77</b>
TOGTOGGGAGGCTGCTGAGGGGGTAGCAGGTCCATCTCCAGCAGCTGGTCCAACAGTCGTATCCTGGTGAATGTCTGTTC	28 <b>56</b>
AGCTCTTCTGTGAGAATATGATTTTTTTCCATATGTATATAGTAAAATATGTTACTATAAATTACATGTACTTTATAAGT	2935
ATTOGTTTGGGTGTTCCTTCCAAGAAGGACTATAGTTAGTAATAAATGCCTATAATAACATATTTTTTTT	3014
ATTTCTAATGAAAAAACTTTTAAATTATATCGCTYYTGTGGAAGTGCATATAAAATAGAGTATTTATACAATATATGT	30 <b>93</b>
TACTAGAAATAAAAGAACACTTYYYGGAAAAAAAAAAAAA	3147

TA	NGO 71/ADAMIS-1 Comparison (90% Protein Seque	nce Id	entity)
251 :	DQSMADFHGSGLKHYLLTLFSVAARFYKHPSIRNSISLVVVKILV		300
1	TRPILV	THOEQ	11
301	KGPEVTSNAALTIRNFCSWOKOHNSPSDRDPEHYDTAILFTRQDI		350
12	KGPEVTSNAALTLRNFCNWQKQHNPPSDRDAEHYDTAILFTRQDL	CGSQT	61
351	CDTLGMADVGTVCDPSRSCSVIEDDGLQAAFTTAHELGHVFNMF		400
62	CDTLCMADVGTVCDPSRSCSVIEDDGLQAAFTTAHELGHVFNMP	DDAKO	111
401	CASLINGVSGDSHLMASMLSSLDHSQFWSPCSAYMVTSFLDAGHGE		450
112	CASINGVNQDSHMMASMI_SNLDHSQPWSPCSAYMITSFILNGHG		161
451	PONPIKLPSDLPGTLYDANROCOFTFGEESKHCPDAASTCTTLW		500
162	PQNPIQLPGDLPGTSYDANRQCQFTFGEDSKHCPDAASTCSTLW		211
501	GLLVCQTKHFFWADGTSCGEGKWCVSGKCVNKTIMKHFATFVHG		550
212	GVLVCQTKHFFWADGTSCGEGKWCINGKCVNKTDRKHFDTPFHG		261
551	PWGDCSRTCGGGVQYTMRECTNPVPKNGGKYCEGKRVRYRSCNI		600
26 <b>2</b>	PWGDCSRTCGGGVQYTMRECTNPVPKNGGKYCEGKRVRYRSCAL	EDCPDN	311
601	Nextfreeoceahnefskaspgnepivewipkyagvspkdrckl		650
312			361
651	. IGYFFVLQPKVVDGTPCSPDSTSVCVQGQCVKAGCDRIIDSKKK		700
362		FDKCGV	411
701	CGGNGSTCKKMSGIVTSTRPGYHDIVTIPAGATNIEVKHRNQRG		750
412	CGGNGSTCKKISGSVTSAKPGYHDIITIPTGATNIEVKQRNQRG		461
751	FLAIRAADGTYILMONFTLSTLEQDLTYKGTVLRYSGSSAALER		800
462	:       ::       :		511
801	L LKEPLITIQVLMVGHALRPKIKFTYFMKKKTESFNAIPTFSEWVI		850
512			560
901	I WSPCSKTCGKGYKKRTLKCVSHDGGVLSNESCDPLKKPKHYIDF	CTLTOC	950
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gtgc	ctac											Gly		tgt Cys		50
														ccc Pro		98
														gag Glu 45		146
tcc Ser	aag Lys	cac His	tgc Cys 50	cct Pro	gat Asp	gca Ala	gcc Ala	agc Ser 55	aca Thr	tgt Cys	act Thr	acc Thr	ctg Leu 60	tgg Trp	tgc Cys	194
	Gly													ttc Phe		242
tgg	gca Ala													agt Ser		290
	Cys													gtt Val		338
														acc Thr 125		386
g <b>g</b> E	Gly													gtc Val		434
aag Lys	aac Asn	gga Gly 145	gly aaa	aag Lys	tac Tyr	tgt Cys	gaa Glu 150	ggc Gly	aaa Lys	cga Arg	gtc Val	cgc Arg 155	tac Tyr	agg Arg	tcc Ser	482
		Ile					Asp					Thr		aga Arg		530
	Gln					Asn					Ala			gly		578
					Trp					Ala				cca Pro 205	Lys	626

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gac Asp	agg Arg	tgc Cys	aag Lys 210	ctc Leu	acc Thr	tgt Cys	gaa Glu	gcc Ala 215	aaa Lys	ggc Gly	att Ile	gly	tac Tyr 220	ttt Phe	ttc Phe	674
gtc Val	tta Leu	cag Gln 225	ccc Pro	aag Lys	gtt Val	gta Val	gat Asp 230	ggc Gly	act Thr	ccc Pro	tgt Cys	agt Ser 235	cca Pro	gac Asp	tct Ser	722
acc Thr	tct Ser 240	gtc Val	tgt Cys	gtg Val	caa Gln	999 Gly 245	cag Gln	tgt Cys	gtg Val	aaa Lys	gct Ala 250	ggc Gly	tgt Cys	gat Asp	cgc Arg	770
atc Ile 255	ata Ile	gac Asp	tcc Ser	aaa Lys	aag Lys 260	aag Lys	ttt Phe	gat Asp	aag Lys	tgt Cys 265	ggc Gly	gtt Val	tgt Cys	gga Gly	gga Gly 270	818
aac Asn	ggt Gly	tcc Ser	aca Thr	tgc Cys 275	aag Lys	aag Lys	atg Met	tca Ser	gga Gly 280	ata Ile	gtc Val	act Thr	agt Ser	aca Thr 285	aga Arg	866
Prō []	Gly aaa	tat Tyr	cat His 290	gac Asp	att Ile	gtc Val	aca Thr	att Ile 295	cct Pro	gct Ala	gga Gly	gcc Ala	acc Thr 300	aac Asn	att Ile	914
Gln	gtg Val	aaa Lys 305	cat His	cgg Arg	aat Asn	caa Gln	agg Arg 310	gly aaa	tcc Ser	aga Arg	aac Asn	aat Asn 315	ggc Gly	agc Ser	ttt Phe	962
ctg Ley	gct Ala 320	att Ile	aga Arg	gcc Ala	gct Ala	gat Asp 325	ggt Gly	acc Thr	tat Tyr	att Ile	ctg Leu 330	aat Asn	gga Gly	aac Asn	ttc Phe	1010
act	Leu	tcc Ser	aca Thr	cta Leu	gag Glu 340	Gln	gac Asp	ctc Leu	acc Thr	tac Tyr 345	Lys	ggt Gly	act Thr	gtc Val	tta Leu 350	1058
agg	tac Tyr	agt Ser	ggt Gly	tcc Ser 355	Ser	gct Ala	gcg Ala	ctg Leu	gaa Glu 360	Arg	atc Ile	cgc Arg	ago Ser	ttt Phe 365	Ser	1106
cca Pro	ctc Leu	aaa Lys	gaa Glu 370	ı Pro	tta Leu	acc Thr	ato Ile	cag Glr 375	ı Val	ctt Leu	atg Met	gta Val	ggc Gly 380	His	gct Ala	1154
			ь Гра					туг					Lys		gag Glu	1202
		e Ası					: Phe					Ile			g tgg 1 Trp	1250

999 Gly 415	<b>'</b> gag Glu	tgc Cys	tcc Ser	aag Lys	aca Thr 420	tgc Cys	ggc Gly	tca Ser	ggt Gly	tgg Trp 425	cag Gln	aga Arg	aga Arg	gta Val		1298
cag Gln	tgc Cys	aga Arg	gac Asp	att Ile 435	aac Asn	gga Gly	cac His	cct Pro	gct Ala 440	tcc Ser	gaa Glu	tgt Cys	gca Ala	aag Lys 445	gaa Glu	1346
gtg Val	aag Lys	cca Pro	gcc Ala 450	agt Ser	acc Thr	aga Arg	cct Pro	tgt Cys 455	gca Ala	gac Asp	ctt Leu	cct Pro	tgc Cys 460	cca Pro	cac His	1394
tgg Trp	cag Gln	gtg Val 465	Gly aaa	gat Asp	tgg Trp	tca Ser	cca Pro 470	tgt Cys	tcc Ser	aaa Lys	act Thr	tgc Cys 475	ggg Gly	aag Lys	ggt Gly	1442
tac Tyr	aag Lys 480	aag Lys	aga Arg	acc Thr	ttg Leu	aaa Lys 485	tgt Cys	gtg Val	tcc Ser	cac His	gat Asp 490	Gly 999	ggc	gtg Val	tta Leu	1490
tca Se	Asn	gag Glu	agc Ser	tgt Cys	gat Asp 500	Pro	ttg Leu	aag Lys	aag Lys	cca Pro 505	Lys	cat His	tac Tyr	att Ile	gac Asp 510	1538
t til Phie	tgc Cys				Gln				gagg	cgt	taga	.ggac	aa g	gtag	cgtgg	1592
gga	i aaaa	cta	atac	acto	aa t	gcaa	gagt	a ct	ggag	ggat	cca	gtga	gtc	aaac	cagtaa	1652
ads	atas Sece	aat	atac	caao	ıca c	atat	atat	a qo	ggat	acat	ago	aaag	gag	gtag	gatcagg	1712
3 G-8	ctac	cct	acca	atta	ica t	tcto	ataa	g gt	agtt	aatg	gago	caca	igta	gcat	ctgaaa	1772
qac	cata	caq	agca	ctaa	igg a	geed	caaa	g ca	ctat	tagt	ato	tctt	ttc	ttat	atctat	1832
cq	ccaa	ata	attt	tcag	gag t	ctgg	gcaga	a go	ccts	ıttgo	act	gtac	taa	ctag	gatactt	1892
ctt	atca	caa	agat	tggg	gaa a	aggca	aago	a ga	aaaga	ıtggt	aaç	gacto	ggt	ttca	aacaag	1952
qct	taat	ttc	aato	cacto	ga g	gcaa	ggag	g ag	gggga	acaaa	a caa	agato	catt	atto	gaagtc	2012
qċŧ	ggtt	gct	gtgo	tttt	ac g	ggaag	gtts	ga to	gcato	catto	c cta	atcaa	acag	tgaa	aagttc	2072
ago	ttgt	tca	acgt	gaca	aga a	aaggo	ctcat	c to	cgt	gaaag	gago	ctcct	gat	ttct	tcttac	2132
acc	catct	cag	ttct	taac	cta t	agtt	cate	jt to	gaggt	agaa	a aca	aatto	catc	tati	tataaa	2252
ato	gtaca	ittg	gaaa	aaaa	aaa 9	gtgaa	gttt	a to	gaggi	cacac	ata	1aaa	actg	aayy	gaaacaa -cacctt	2232
tga	agcaa	acat	gcct	cctg	get i	reger	2000	70 01	-yay	y caac	a CC	-gcci	-999	acca	gaggtta gagtta	2372
gti	taag	Jacc Jacc	toat	arge	300	rata	zgagg	je as	etaa.	raeac	a car	arta	atca	ctica	agagtta atctcac	2432
ya.	raggi	gyca	cayo	agacı	ay y	adcad	ratic	ra ci	taata	gaca	a cto	aatc	caac	agto	cgtatco	2492
tac	atgaa	atat	ctat	ttcac	act (	cttci	tacto	ra q	agaga	aatai	t ga	ctgti	ttcc	atai	tgtatat	2552
at.	atata	agta	aaai	tatq	tta (	ctate	gaati	eq c	atgt	actt	t ata	aagta	attg	gtg	tgtctgt	2612
tc	cttc1	caaq	aaq	gacta	ata 🤄	gttta	ataat	ca a	atgc	ctata	a at	aaca	tatt	tati	ttttata	2672
car	tttai	tttc	taa	tgata	aaa .	accti	ttaaq	gt t	atat	cgct:	t tt	gtaa	aagt	gca	tataaaa	2732
ata	agagi	tatt	tat	acaa	tat .	atgt:	taact	ta g	aaat	aata	a aa	gaac	actt	ttg	aatgtgt	2792
ate	gccta	attt	tct	ggag	tgg ·	gatt	aact	to t	gggc	aaga	a at	ctga	tgag	aca	caaacat	2852
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ac	taat	aaaa	aag	aagt	tga	tgat	gtct	tt a	gtgg	taag	a tt	gtta	ctaa	tgt	ggttggd	2022
aa	attg	ctgt	aaa	gagc	cag	atag	taag	ca t	ttat atar	ggca aaaa	t tg	cagg	ccat aat~	CCC	tcctgcc	- 3034 - 3092
ac	aacc	atgt	gac	agtg	agt	gctt	Lyta	yy a	cuga	yayc	a yc	cald	aaty	aca	tgtaaat	

cctga ccga ccag ggct	ccgagetect geectagagt egactggget eccgecegeg tgggacagae agacggacag ecagecetge gagggegege ggacegggeg gaggtgttgt aggaggagae egaggagggg egetggget gggetggge agaggagaeat gegattggtg accaageega															120 180 240
														ccc Pro 25		400
ctc Leu	ctg Leu	ctg Leu	gta Val 30	ctg Leu	ggc Gly	tca Ser	gtg Val	ctg Leu 35	tca Ser	ggc Gly	tct Ser	gct Ala	aca Thr 40	ggc	tgc Cys	448
ccg Pro	ccc Pro	cgc Arg 45	tgc Cys	gag Glu	tgc Cys	tca Ser	gcg Ala 50	cag Gln	gac Asp	cga Arg	gcc Ala	gtg Val 55	ctc Leu	tgc Cys	cac His	496
cgÇ	aaa Lys 60	cgc Arg	ttt Phe	gtg Val	gcg Ala	gtg Val 65	ccc Pro	gag Glu	ggc Gly	atc Ile	ccc Pro 70	acc Thr	gag Glu	act Thr	cgc Arg	544
														gac Asp		592
t bt. Phe	gcc Ala	agc Ser	ttc Phe	cca Pro 95	cac His	ctg Leu	gag Glu	gag Glu	cta Leu 100	gaa Glu	ctc Leu	aat Asn	gaa Glu	aac Asn 105	atc Ile	640
g <u>t</u> g Væl														ctg Leu		688
act Thr	ctg Leu	999 Gly 125	ctg Leu	cgc Arg	agc Ser	aac Asn	cgc Arg 130	ctg Leu	aag Lys	ctt Leu	atc Ile	ccg Pro 135	ctg Leu	ggc Gly	gtc Val	736
ttc Phe	acc Thr 140	ggc Gly	ctc Leu	agc Ser	aac Asn	ttg Leu 145	acc Thr	aag Lys	ctg Leu	gac Asp	atc Ile 150	agt Ser	gag Glu	aac Asn	aag Lys	784
	Val					Tyr					Leu			ctc Leu		832
					Asp					Tyr				cga Arg 185	Ala	880

ttc agc ggc ctc aac agc ctg gaa cag ctg acg ctg gag aaa tgc aat Phe Ser Gly Leu Asn Ser Leu Glu Gln Leu Thr Leu Glu Lys Cys Asn 195 200 190 ctg acc tcc atc ccc acg gag gcg ctc tcc cac ctg cac ggc ctc atc 976 Leu Thr Ser Ile Pro Thr Glu Ala Leu Ser His Leu His Gly Leu Ile 210 205 gtc ctg cgg cta cga cat ctc aac atc aat gcc atc agg gac tac tcc 1024 Val Leu Arg Leu Arg His Leu Asn Ile Asn Ala Ile Arg Asp Tyr Ser 225 220 tto aag agg ctg tac cga ctt aag gtc tta gag atc tcc cac tgg ccc 1072 Phe Lys Arg Leu Tyr Arg Leu Lys Val Leu Glu Ile Ser His Trp Pro 245 240 235 1110 tac ctg gac acc ata acc ccc cgg acg cgt ggg tcg ac Tyr Leu Asp Thr Ile Thr Pro Arg Thr Arg Gly Ser 255 260

ctcctggatg tgcgcagccg cagagcgctg ctgctgtgcc taatacccat cgctgcgcac ( ttgacagcca gtccgccgt ccggagcccg gctcgttggg gcagc atg gcg ggg tcg 1  Met Ala Gly Ser 1														60 117		
ccg Pro 5	ctg Leu	ctc Leu	tgc Cys	gly aaa	ccg Pro 10	cgg Arg	gcc Ala	Gly aaa	ggc Gly	gtc Val 15	ggc Gly	att Ile	ttg Leu	gtg Val	ctg Leu 20	165
ctg Leu	ctc Leu	ttg Leu	ggc	ctt Leu 25	ctg Leu	agg Arg	ctg Leu	ccc Pro	ccc Pro 30	acc Thr	ctg Leu	tca Ser	gcg Ala	agg Arg 35	ccc Pro	213
gtg Val	aag Lys	gag Glu	ccc Pro 40	cgc Arg	agt Ser	ctg Leu	agc Ser	gca Ala 45	gca Ala	tcc Ser	gcg Ala	ccc Pro	ttg Leu 50	gtt Val	gag Glu	261
acg Thr	agc Ser	act Thr 55	ccc Pro	ctc Leu	cgc Arg	ttg Leu	cgt Arg 60	cgg Arg	gcc Ala	gtg Val	ccc Pro	cga Arg 65	gga Gly	gag Glu	gcg Ala	309
qeq	ggt Gly 70	gcg Ala	gtg Val	cag Gln	gag Glu	ctg Leu 75	gcg Ala	cgg Arg	gcg Ala	ctg Leu	gcg Ala 80	cac His	ctg Leu	ctg Leu	gag Glu	357
gçç Ala 85	gag Glu	aga Arg	cag Gln	gaa Glu	cgc Arg 90	gcg Ala	cgt Arg	gct Ala	gag Glu	gcg Ala 95	cag Gln	gag Glu	gct Ala	gag Glu	gat Asp 100	405
cag Gla	cag Gln	gcg Ala	cgt Arg	gtc Val 105	ctg Leu	gcg Ala	cag Gln	ctg Leu	ctg Leu 110	cgc Arg	gcc Ala	tgg Trp	ggc	tct Ser 115	ccg Pro	453
cgt	gcc Ala	tcg Ser	gac Asp 120	ccg Pro	ccc Pro	ttg Leu	gcc Ala	ccc Pro 125	gac Asp	gat Asp	gac Asp	ccg Pro	gac Asp 130	gct Ala	cca Pro	501
gct Ala	gca Ala	cag Gln 135	. Leu	gcc Ala	cgt Arg	gct Ala	ctg Leu 140		cga Arg	gct Ala	cgc Arg	cta Leu 145	Asp	ccc Pro	ggc	549
cco	cag Glr 150	Cys	atg Met	atg Met	atg Met	gcc Ala 155	Pro	ctg Leu	gcc Ala	caç Glr	g acg n Thr 160	Ser	agg Arg	atg Met	ccg Pro	597
gcg Ala 165	a Thr	g aga Arg	cto Lev	ctg Leu	acg Thr	Trp	acc Thr	ctg	ago Ser	tgo Cys 175	5	ıggta	ctt	gcta	raaaca	g 650
gto	ggaco	cagg	attt	gggt	cc c	gagg	gtgco	cc cc	tgag	gaac	g tad	ctggg	ıggc	tcts	ccgatc gctacg ccctg	c 770